

Title (en)

Semiconductor device comprising an integrated light guide having at least a straight part and a bent part.

Title (de)

Einen integrierten Lichtleiter umfassendes Halbleitergerät mit wenigstens einem geraden Teil und einem gebogenen Teil.

Title (fr)

Dispositif semiconducteur comprenant un guide de lumière intégré qui présente au moins une partie rectiligne et une partie courbe.

Publication

EP 0349038 B1 19940518 (FR)

Application

EP 89201586 A 19890619

Priority

FR 8808503 A 19880624

Abstract (en)

[origin: EP0349038A1] Semiconductor device comprising an integrated light guide, which has at least one straight part and one bent part, and comprising means for obtaining the confinement of the light in the guide in the bent part, which parts include a groove disposed along the side of the guide in the region of the bend, characterised in that these means also include a guide structure comprising a guiding layer, and overhanging the guiding layer, a tape in relief to determine the optical path followed by the light in the guiding layer, and in that these means furthermore include a groove structure such that it has a constant depth, its central part exactly follows the side of the guiding tape in the bent part, its ends move away from the side of this tape at the entrance and at the exit of the bent part, and its bottom is disposed in the guiding layer at a level which does not reach the lower part of this guiding layer. <IMAGE>

IPC 1-7

G02B 6/12

IPC 8 full level

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CPC (source: EP KR US)

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Cited by

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